

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: ICE/SRFMTTI,  
ANANTAPUR/2025-26/39/39/1968

माह/Month: January 2026

**THIS TEST REPORT IS VALID UP TO 31.12.2032**



**AGNI, ECT 225P POWER WEEDER**



**Government of India**

कृषि एवं किसान कल्याण मंत्रालय

**Ministry of Agriculture and Farmers Welfare**

कृषि एवं किसान कल्याण विभाग

**Department of Agriculture and Farmers Welfare**

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

**Southern Region Farm Machinery Training and Testing Institute**

ट्रैक्टर नगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

**Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)**

**[An ISO 9001:2015 CERTIFIED INSTITUTE]**

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Manufacturer, (apa) : **Chongqing Joymotion Equipment Co. Ltd., 1-1,  
No. 99, Deyuan Road, Degan Street, Jiangjin  
District, (1-1, Building 10, Standard Factory  
Building, Chongqing Smart Technology City, Plot  
C4-02-1) Chongqing City, China.**

Applicant : **M/s Eastcoast Traders,  
Angil Complex, Near Over Bridge, Pipili Sasan,  
Pipili, Puri, Odisha , India- 752104.**

### **AGNI, ECT 225P POWER WEEDER**

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सत्यमेव जयते

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 ANANTAPUR/2025-26/ 39/39/1968	AGNI, ECT 225P POWER WEEDER THIS TEST REPORT IS VALID UP TO 31.12.2032	COMMERCIAL (ICT)
	Type of test : COMMERCIAL (ICT)	

Period of test : October, 2025 to December, 2025

Test Report No. : ICE/SRFMTTI, ANANTAPUR/2025-26/39/39/1968

Month / Year of release : January, 2026

- The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- The data given in this report pertain to the particular machine randomly selected by testing authority through virtual mode.
- The results presented in this report do not, in anyway, attribute to the durability of the machine.
- This Test Report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne, Anantapur (A.P.).
- This is a report on Commercial Test of Power Weeder named "AGNI, ECT 225P POWER WEEDER". This report is valid up to 31.12.2032, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

### SELECTED CONVERSIONS

Sl. No.	Units	Conversion Factor
1	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
2	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	<b>Pressure</b>	
	1 psi	6.895 kPa
	1 kgf/cm <sup>2</sup>	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm <sup>2</sup>
	1 mm of Hg	1.3332 m-bar



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1	2	3	4	5
28	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conforms

## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The rated power and maximum power were observed as 4.15 kW under natural ambient condition against the declared value of 4.5 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 415 g/kWh against the declared value of 420 g/kWh.
- 18.1.3 Back up torque of engine was observed as 14.4 % against declared value of 10%.
- 18.1.4 Max. torque was observed as 12.42 Nm against the declared value of 10 Nm.

### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 416 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

### 18.3 Marking /labeling:

The labeling plate does not reveal all the required information. it is therefore recommended that a suitable labeling plate covering all essential components, inter alia, the following must be provided:





- Address of manufacturer
- SFC

This should be looked into for necessary corrective action.

### 18.4 Technical literature:

Operator's manual, service manual and parts catalogue of power weeder in separate booklet were supplied for reference during the test. It is however, recommended that same may be revised in Hindi and other regional languages as per IS 8132: 1999 (Reaffirmed 2004) for the sake of user & technical personnel's.

## TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. Y.K. RAO SENIOR AGRICULTURAL ENGINEER
	 Dr. P.P. RAO DIRECTOR